

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S11 8	0	09/520964	USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2005/04/22 17:10
S11 9	0	09/520964	US-PGPUB; USPAT	OR	ON	2005/04/22 17:10
S12 0	0	"09520964"	US-PGPUB; USPAT	OR	ON	2005/04/22 17:13
S12 1	1983927	range	US-PGPUB; USPAT	OR	ON	2005/04/22 17:13
S12 2	409087	S121 and imag\$3	US-PGPUB; USPAT	OR	ON	2005/04/22 17:35
S12 3	4989	((382/103,106,107,181) or (700/62) or (348/169,135,139, 140,340) or (356/3,4.01,4.07,21, 22) or (345/619,622) or (414/2)). CCLS.	US-PGPUB; USPAT	OR	OFF	2005/04/22 17:47
S12 4	0	("6andpose\$2").PN.	US-PGPUB; USPAT	OR	OFF	2005/04/22 17:48
S12 5	327	S123 and pose\$2	US-PGPUB; USPAT	OR	OFF	2005/04/22 17:48
S12 6	234	S125 and range\$2	US-PGPUB; USPAT	OR	OFF	2005/04/22 17:48
S12 7	3	S126 and (dens\$3 near2 range\$2)	US-PGPUB; USPAT	OR	OFF	2005/04/22 17:50
S12 8	26665	(dens\$3 near2 range\$2)	US-PGPUB; USPAT	OR	OFF	2005/04/22 17:51
S12 9	1089	S128 and pose\$2	US-PGPUB; USPAT	OR	OFF	2005/04/22 17:51
S13 0	633	S129 and @ad<"20000308"	US-PGPUB; USPAT	OR	OFF	2005/04/22 18:03
S13 1	366	S129 and @rlad<"20000308"	US-PGPUB; USPAT	OR	OFF	2005/04/22 17:51
S13 2	726	S130 or S131	US-PGPUB; USPAT	OR	OFF	2005/04/22 17:52
S13 3	0	S132 and (shift\$3 near2 focus\$3)	US-PGPUB; USPAT	OR	OFF	2005/04/22 17:52
S13 4	1	S132 and (shift\$3 with focus\$3)	US-PGPUB; USPAT	OR	OFF	2005/04/22 17:53
S13 5	2	S132 and (expan\$4 near3 focus\$3)	US-PGPUB; USPAT	OR	OFF	2005/04/22 17:53
S13 6	2239	foe	US-PGPUB; USPAT	OR	OFF	2005/04/22 18:02

S13 7	431	S136 and focu\$3	US-PGPUB; USPAT	OR	OFF	2005/04/22 18:03
S13 8	100	S137 and expansion\$2	US-PGPUB; USPAT	OR	OFF	2005/04/22 18:03
S13 9	36	S138 and (focus\$3 near2 expansion\$2)	US-PGPUB; USPAT	OR	OFF	2005/04/22 18:35
S14 0	18	S139 and @ad<"20000308"	US-PGPUB; USPAT	OR	OFF	2005/04/22 18:03
S14 1	3	S139 and @rlad<"20000308"	US-PGPUB; USPAT	OR	OFF	2005/04/22 18:03
S14 2	21	S140 or S141	US-PGPUB; USPAT	OR	OFF	2005/04/22 18:04
S14 3	4	S142 and shift\$3	US-PGPUB; USPAT	OR	OFF	2005/04/22 18:17
S14 4	3	S143 and range	US-PGPUB; USPAT	OR	OFF	2005/04/22 18:17
S14 5	23	S139 and ((image\$2 or frame\$2) near3 (foe\$2 or (focus\$3 near2 expansion\$2)))	US-PGPUB; USPAT	OR	OFF	2005/04/22 18:35
S14 6	3	S144 and ((image\$2 or frame\$2) near3 (foe\$2 or (focus\$3 near2 expansion\$2)))	US-PGPUB; USPAT	OR	OFF	2005/04/22 18:42
S14 7	11	S142 and depth\$2	US-PGPUB; USPAT	OR	OFF	2005/04/22 19:27
S14 8	3	S147 and (pose\$2 or posing\$2)	US-PGPUB; USPAT	OR	OFF	2005/04/22 19:28
S14 9	106689	pose\$2	US-PGPUB; USPAT	OR	ON	2005/04/24 13:09
S15 0	208	S149 and ((focus\$2 near2 expansion\$2) or foe\$2 or epipole)	US-PGPUB; USPAT	OR	ON	2005/04/24 13:56
S15 1	194	S150 and (range\$2 or depth\$2 or distance\$2)	US-PGPUB; USPAT	OR	ON	2005/04/24 13:11
S15 2	181	S150 and (range\$2 or depth\$2)	US-PGPUB; USPAT	OR	ON	2005/04/24 13:11
S15 3	84	S151 and @ad<"20000308"	US-PGPUB; USPAT	OR	ON	2005/04/25 10:52
S15 4	52	S151 and @rlad<"20000308"	US-PGPUB; USPAT	OR	ON	2005/04/24 13:12
S15 5	113	S153 or S154	US-PGPUB; USPAT	OR	ON	2005/04/24 13:12
S15 6	0	("2001/0043738").URPN.	USPAT	OR	OFF	2005/04/24 13:20
S15 7	43	("5963664").URPN.	USPAT	OR	OFF	2005/04/24 13:56
S15 8	4	S157 and ((focus\$2 near2 expansion\$2) or foe\$2 or epipole)	US-PGPUB; USPAT	OR	ON	2005/04/24 14:14

S15 9	7	("4797942" "5187754" "5202928" "5530774" "5550937" "5568384" "5682198").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/24 13:59
S16 0	0	S159 and ((focus\$2 near2 expansion\$2) or foe\$2 or epipole)	US-PGPUB; USPAT	OR	ON	2005/04/24 13:59
S16 1	1	S155 and (((focus\$2 near2 expansion\$2) or foe\$2) with epipol\$5)	US-PGPUB; USPAT	OR	ON	2005/04/24 14:16
S16 2	226	(focus\$2 near2 expansion\$2)	US-PGPUB; USPAT	OR	ON	2005/04/24 14:17
S16 3	226	S162 and (foe\$2 or (focus\$2 near2 expansion\$2))	US-PGPUB; USPAT	OR	ON	2005/04/24 14:17
S16 4	24	S163 and ((translat\$5 or mov\$6 or shift\$3) near3 (foe\$2 or (focus\$2 near2 expansion\$2)))	US-PGPUB; USPAT	OR	ON	2005/04/24 16:12
S16 5	0	S163 and ((integer\$2 or constant\$2 or add\$5 or multipl\$7) near2 (foe\$2 or (focus\$2 near2 expansion\$2)))	US-PGPUB; USPAT	OR	ON	2005/04/24 16:11
S16 6	2	S163 and ((independent\$4 or regardles\$3) near3 (foe\$2 or (focus\$2 near2 expansion\$2)))	US-PGPUB; USPAT	OR	ON	2005/04/24 16:12
S16 7	226	(focus\$2 near2 expansion\$2)	US-PGPUB; USPAT	OR	ON	2005/04/25 10:52
S16 8	226	S167 and (foe\$2 or (focus\$2 near2 expansion\$2))	US-PGPUB; USPAT	OR	ON	2005/04/25 10:59
S16 9	24	S168 and ((translat\$5 or mov\$6 or shift\$3) near3 (foe\$2 or (focus\$2 near2 expansion\$2)))	US-PGPUB; USPAT	OR	ON	2005/04/25 10:52
S17 0	113	S168 and @ad<"20000308"	US-PGPUB; USPAT	OR	ON	2005/04/25 10:53
S17 1	50	S168 and @rlad<"20000308"	US-PGPUB; USPAT	OR	ON	2005/04/25 10:53
S17 2	139	S170 or S171	US-PGPUB; USPAT	OR	ON	2005/04/25 10:53
S17 3	2	S172 and articulat\$5	US-PGPUB; USPAT	OR	ON	2005/04/25 10:53
S17 4	1	("5754181").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/25 10:57
S17 5	12854	(foe\$2 or (focus\$2 near2 expansion\$2))	USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/25 11:23

S17 6	54	S175 and ((shift\$3 or moving or move\$2 or movement\$2 or translat\$4) near (foe\$2 or (focus\$2 near2 expansion\$2))) (focus\$2 near2 expansion\$2)	USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/25 11:06
S17 7	46		USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/25 11:06
S17 8	1	S177 and ((shift\$3 or moving or move\$2 or movement\$2 or translat\$4) near (foe\$2 or (focus\$2 near2 expansion\$2)))	USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/25 11:06
S17 9	25	(US-4687326-\$ or US-5036474-\$ or US-5128874-\$ or US-5307170-\$ or US-5432712-\$ or US-5521633-\$ or US-5572595-\$ or US-5675377-\$ or US-5692061-\$ or US-5936628-\$ or US-6031934-\$ or US-6084979-\$ or US-6141463-\$ or US-6195445-\$ or US-6249600-\$ or US-6269172-\$ or US-6292111-\$ or US-6356669-\$ or US-6400828-\$ or US-6445810-\$ or US-6452637-\$ or US-6456737-\$ or US-6466684-\$ or US-6636257-\$).did. or (JP-2004246156-\$).did.	USPAT; DERWENT	OR	OFF	2005/04/25 11:23
S18 1	7	S179 and (foe\$2 or (focus\$2 near2 expansion\$2))	US-PGPUB; USPAT	OR	ON	2005/04/25 11:23

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 1. Detecting unexpected moving obstacles that appear in the path of a navigating robot

Nair, D.; Aggarwal, J.K.;

Image Processing, 1994. Proceedings. ICIP-94., IEEE International Conference

Volume 2, 13-16 Nov. 1994 Page(s):311 - 315 vol.2

[AbstractPlus](#) | [Full Text: PDF\(400 KB\)](#) IEEE CNF

IEEE STD IEEE Standard
 2. Motion trajectories

Shah, M.; Rangarajan, K.; Tsai, P.-S.;

Systems, Man and Cybernetics, IEEE Transactions on

Volume 23, Issue 4, July-Aug. 1993 Page(s):1138 - 1150

[AbstractPlus](#) | [Full Text: PDF\(1184 KB\)](#) IEEE JNL

IEEE JNL IEEE Journal or Magazine
 3. Interpretation of motion trajectories using focus of expansion

Rangarajan, K.; Shah, M.;

Pattern Analysis and Machine Intelligence, IEEE Transactions on

Volume 14, Issue 12, Dec. 1992 Page(s):1205 - 1210

[AbstractPlus](#) | [Full Text: PDF\(520 KB\)](#) IEEE JNL

IEEE JNL IEEE Journal or Magazine
 4. Moving obstacle detection from a navigating robot

Nair, D.; Aggarwal, J.K.;

Robotics and Automation, IEEE Transactions on

Volume 14, Issue 3, June 1998 Page(s):404 - 416

[AbstractPlus](#) | [References](#) | [Full Text: PDF\(332 KB\)](#) IEEE JNL

IEEE JNL IEEE Journal or Magazine
 5. "Where are you driving to?" Heading direction for a mobile robot from optical flow

Dev, A.; Krose, B.J.A.; Groen, F.C.A.;

Robotics and Automation, 1998. Proceedings. 1998 IEEE International Conference on

Volume 2, 16-20 May 1998 Page(s):1578 - 1583 vol.2

[AbstractPlus](#) | [Full Text: PDF\(524 KB\)](#) IEEE CNF

IEEE JNL IEEE Journal or Magazine
 6. Dynamic scene understanding for autonomous mobile robots

Burger, W.; Bhanu, B.;

Computer Vision and Pattern Recognition, 1988. Proceedings CVPR '88., Computer Vision

5-9 June 1988 Page(s):736 - 741

[AbstractPlus](#) | [Full Text: PDF\(528 KB\)](#) IEEE CNF

- 7. **On computing a 'fuzzy' focus of expansion for autonomous navigation**
Burger, W.; Bhanu, B.;
Computer Vision and Pattern Recognition, 1989. Proceedings CVPR '89., IEEE Computer Conference on
4-8 June 1989 Page(s):563 - 568
[AbstractPlus](#) | Full Text: [PDF\(504 KB\)](#) IEEE CNF

- 8. **What does the butterfly Papilio aegeus have in common with a Citroen DS23?**
Dubois, R.;
From Perception to Action Conference, 1994., Proceedings
7-9 Sept. 1994 Page(s):356 - 359
[AbstractPlus](#) | Full Text: [PDF\(200 KB\)](#) IEEE CNF

- 9. **Moving obstacle detection using residual error of FOE estimation**
Takeda, N.; Watanabe, M.; Onoguchi, K.;
Intelligent Robots and Systems '96, IROS 96, Proceedings of the 1996 IEEE/RSJ International Conference on
Volume 3, 4-8 Nov. 1996 Page(s):1642 - 1647 vol.3
[AbstractPlus](#) | Full Text: [PDF\(1068 KB\)](#) IEEE CNF

- 10. **Motion based vehicle detection on motorways**
Gillner, W.J.;
Intelligent Vehicles '95 Symposium., Proceedings of the
25-26 Sept. 1995 Page(s):483 - 487
[AbstractPlus](#) | Full Text: [PDF\(440 KB\)](#) IEEE CNF

- 11. **Obstacle location estimation using planar projection stereopsis method**
Onoguchi, K.; Takeda, N.; Watanabe, M.;
Robotics and Automation, 1997. Proceedings., 1997 IEEE International Conference on
Volume 3, 20-25 April 1997 Page(s):2553 - 2558 vol.3
[AbstractPlus](#) | Full Text: [PDF\(836 KB\)](#) IEEE CNF

- 12. **Dynamic scene analysis for a mobile robot in a man-made environment**
Tsuji, S.; Yagi, Y.; Asada, M.;
Robotics and Automation. Proceedings. 1985 IEEE International Conference on
Volume 2, Mar 1985 Page(s):850 - 855
[AbstractPlus](#) | Full Text: [PDF\(800 KB\)](#) IEEE CNF

- 13. **High fidelity optical flow and stereo disparity determination based on early human vision**
Overington, I.;
Motion and Stereopsis in Machine Vision, IEE Colloquium on
13 Jan 1988 Page(s):7/1 - 7/4
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Sharma, R.; Aloimonos, Y.;
Intelligent Control, 1991., Proceedings of the 1991 IEEE International Symposium on
13-15 Aug. 1991 Page(s):43 - 48

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09/520964 Examiner: NAKHJAVAN, SHERVIN GAU: 2621
 Inventor: COVELL, MICHELE, et al Classification: 382/106.000
 Status: 71 - RESPONSE TO NON-FINAL OFFICE ACTION ENTERED AND FORWARDED TO EXAMINER
 Title: THREE DIMENSIONAL OBJECT POSE ESTIMATION WHICH EMPLOYS DENSE DEPTH INFORMATION

Contents report (41 items sorted by NONE in NO order)

Date	Status	Code	Description
03/17/2005		C.ADB	CORRESPONDENCE ADDRESS CHANGE
03/11/2005		FWDX	DATE FORWARDED TO EXAMINER
03/11/2005		TSSCO MP	IFW TSS PROCESSING BY TECH CENTER COMPLETE
02/04/2005		DOCK	CASE DOCKETED TO EXAMINER IN GAU
11/29/2004	71	A...	RESPONSE AFTER NON-FINAL ACTION
11/29/2004		WAMD	WORKFLOW INCOMING AMENDMENT IFW
08/23/2004	41	MCTM S	MAIL MISCELLANEOUS COMMUNICATION TO APPLICANT
08/22/2004	40	CTMS	MISCELLANEOUS ACTION WITH SSP
06/16/2004		PA..	CHANGE IN POWER OF ATTORNEY (MAY INCLUDE ASSOCIATE POA)
06/15/2004		ABN9	DISPOSAL FOR A RCE/CPA/129 (EXPRESS ABANDONMENT IF CPA)
06/15/2004		C.AD	CORRESPONDENCE ADDRESS CHANGE
06/15/2004		FWDX	DATE FORWARDED TO EXAMINER
06/01/2004		AMSB	AMENDMENT SUBMITTED/ENTERED WITH FILING OF CPA/RCE
06/01/2004		BRCE	WORKFLOW - REQUEST FOR RCE - BEGIN
06/01/2004	71	RCEX	REQUEST FOR CONTINUED EXAMINATION (RCE)
06/01/2004		WAMD	WORKFLOW INCOMING AMENDMENT IFW
06/01/2004		XT/G	REQUEST FOR EXTENSION OF TIME - GRANTED
02/25/2004	61	MCTF R	MAIL FINAL REJECTION (PTOL - 326)
02/21/2004	60	CTFR	FINAL REJECTION
12/12/2003		FWDX	DATE FORWARDED TO EXAMINER
11/28/2003	71	A...	RESPONSE AFTER NON-FINAL ACTION

09/520964 Examiner: NAKHJAVAN, SHERVIN GAU: 2621
 Inventor: COVELL, MICHELE, et al Classification: 382/106.000
 Status: 71 - RESPONSE TO NON-FINAL OFFICE ACTION ENTERED AND FORWARDED TO EXAMINER
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Contents report (41 items sorted by NONE in NO order)

Date	Status	Code	Description
11/28/2003		M844	INFORMATION DISCLOSURE STATEMENT (IDS) FILED
11/28/2003		XT/G	REQUEST FOR EXTENSION OF TIME - GRANTED
11/12/2003		EXIN	EXAMINER INTERVIEW SUMMARY RECORD (PTOL - 413)
07/22/2003	41	MNRES	MAIL NOTICE OF RESTARTED RESPONSE PERIOD
07/22/2003		NRES	LETTER RESTARTING PERIOD FOR RESPONSE (I.E. LETTER RE: REFERENCES)
07/17/2003	41	MCTNF	MAIL NON-FINAL REJECTION
07/14/2003	40	CTNF	NON-FINAL REJECTION
06/25/2003		FWDX	DATE FORWARDED TO EXAMINER
06/16/2003	71	ELC.	RESPONSE TO ELECTION / RESTRICTION FILED
06/16/2003		XT/G	REQUEST FOR EXTENSION OF TIME - GRANTED
04/02/2003	41	MCTRS	MAIL RESTRICTION REQUIREMENT
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10/29/2002		DOCK	CASE DOCKETED TO EXAMINER IN GAU
01/02/2001	30	DOCK	CASE DOCKETED TO EXAMINER IN GAU
12/07/2000		COMP	APPLICATION IS NOW COMPLETE
12/07/2000	20	OIPE	APPLICATION DISPATCHED FROM OIPE
05/09/2000		INCD	NOTICE MAILED--APPLICATION INCOMPLETE--FILING DATE ASSIGNED
05/08/2000		C.AD	CORRESPONDENCE ADDRESS CHANGE
03/24/2000		SCAN	IFW SCAN & PACR AUTO SECURITY REVIEW
03/08/2000	19	IEXX	INITIAL EXAM TEAM NN